

Description of product	AquaRoute™ AL Colour is a 1-component waterborne fast drying road marking dispersion-paint. Suitable for airless (AL) high pressure or pneumatic spray application of type I road marking systems with drop-on materials with up to 400 µm wet film thickness.
Area of application	Suitable for the application of centre and edge lines on country roads, national roads, and state roads on concrete and bituminous surfaces. When used in high trafficked areas the marking must have hardened completely before the area is reopened for traffic. Not recommended for city-marking.
Technical characteristics	
Binding agent:	Acrylic dispersion
Colour:	Several colours available
Pigmentation:	High-quality inorganic and organic pigments, extended UV- and weather proofed
Density:	1.50 ± 0.04 kg/l (depending on colour)
Viscosity:	88 ± 5 KU (Krebs Stormer, depending on colour)
VOC-content:	VOC free (according to VOC-guideline 2004/42/EG)
Additional information:	Free from toxic heavy metals or their compositions. Free from aromatic hydrocarbons. Additional information about current legal regulations and information regarding workers' health and safety are listed in the Material Safety Data Sheet. Also, instructions about transport, handling and storage, disposal and advice regarding first aid, toxicology and ecology are given. The Material Safety Data Sheet must be read and understood before commencing work.
Application properties	
Viscosity:	Under normal circumstances the dispersion paint can be used directly as delivered. To optimize the sprayability properties, dilution can be done by adding max. 1 % by weight of pure water to lower the viscosity.
Application process:	AquaRoute™ AL Colour must be stirred until homogeneous. The application is made with conventional application machines. For airless application the use of nozzles wider than 0.019 inches is recommended. The machine shall be equipped with a sieve 60 mesh. The product may not be used for any purpose other than the intended purpose without the consent of the manufacturer. When used in a different way or when applied on special surfaces, please contact the manufacturer before.
Temperature:	Recommended paint temperature between + 10 °C and + 35 °C.
Air / Surface temperature:	+ 10°C – 50°C for the next 8 h after application
Max. relative humidity:	85 % RH
Drying time:	The lines can be passed over within 15 minutes at good weather conditions. <i>Relative air humidity 60 % and air temperature 20 °C. Lower temperatures or higher air humidity will increase the pass-over time.</i>
Rain safety:	Approx. 30 min after the pass-over time has been reached. In the case of high air humidity (> 75 % RH), the time until rain safety is reached can be increased significantly.
Surface preparation:	Before application, the surface shall be dry, clean, free of dust and loose particles, salt and grease or oil. The surface must be adhesive. Old markings must be checked before over- marking.

Asphalt

New bituminous surfaces should be weathered 4 - 8 weeks before final application. Aged asphalt or any asphalt poor in bitumen must be prepared with **AquaRoute™ UWS Primer** (≈ 0.2 kg/m²). It is not recommended to apply this product on asphalt showing large stones (bigger than 2 cm).

Concrete

Fresh concrete surfaces containing a paraffin layer must be mechanically pre-treated by grinding or shot blasting. Any cement residue must be removed before application. All concrete surfaces must be prepared with **AquaRoute™ UWS Primer** (0.2 kg/m²). Also take part of the technical datasheet for **AquaRoute™ UWS Primer**.

Polished surfaces

Application on smooth surfaces (polished stone, granite, basalt, tile, glazed tiles, etc.) and surface-treated concrete may cause reduced adhesion. For this type of substrates we recommend applying test markings, and check them after 14 days to secure proper adhesion.

The manufacturer will not be liable for failures of adhesion on any polished surface.

Use of thinner:

At low temperatures the paint becomes thick-flowing. To optimize the sprayability properties, dilution can be done by adding max. 1 % by weight of **pure water** to lower the viscosity. **Do not use any organic solvents for thinning since they will destroy the water borne binding agent irreversibly!**

Thickness, wet:

300 - 400 µm

Consumption:

Approx. 0.45 kg/m² (300 µm wet) to 0.60 kg/m² (400 µm wet)

Quantity for a full line with a length of 1.0 km

Thickness, wet	Width of the line	Consumption	Width of the line	Consumption
0.3 mm	10.0 cm	45,0 kg/km	25.0 cm	112,5 kg/km
0.4 mm		60,0 kg/km		150,0 kg/km
0.3 mm	12.0 cm	54,0 kg/km	30.0 cm	135,0 kg/km
0.4 mm		72,0 kg/km		180,0 kg/km
0.3 mm	15.0 cm	67,5 kg/km	50.0 cm	225,0 kg/km
0.4 mm		90,0 kg/km		300,0 kg/km

Storage stability:

9 months after production when kept in the original packaging under proper storage conditions. Please notice that the material can show a tendency towards sedimentation during transport and storage. After having been stirred-up homogeneously, the material will be ready for use again. **If skin of paint has occurred, do not try to dissolve or to stir it since the skin is no more water soluble. The skin of paint must be removed completely to avoid blocking of filter and nozzle.**

Storage:

Store in tightly closed original packaging in a dry, well-ventilated room at temperatures between +5 °C and +30 °C (41 °F – 86 °F), not directly on the floor and not in the vicinity of heating radiators.

Packaging:

See valid price list or contact Geveko Markings.